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**PRIMA-BOND**  
**ME7155-AN**

**High Thermal Conductivity**

**Stress Free**  
**Solvent Free**  
**Reworkable**

**Epoxy Paste Adhesive**

**IDEAL FOR:**

High Power Die Attach  
 Substrate and Component  
 Reworkability  
 Mismatched CTE's

**DESCRIPTION:**

ME7155-AN is a reworkable, aluminum nitride filled, electrically insulating and thermally conductive epoxy paste adhesive which exhibits outstanding flexibility for bonding materials having highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper). The high thermal conductivity of this material makes it useful for bonding high-powered, large area die and components.

It can be readily reworked at 80-100°C.

**TYPICAL PROPERTIES\***

Electrical Resistivity ( 150 °C/ 60 minute )	>1x10 <sup>14</sup> ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(°C)	-25 ±10%
Current Carrying Capabilities	N/A
Lap-Shear Strength	>900 psi >6.2 N/mm <sup>2</sup>
Device Push-off Strength	>1800 psi >12.4 N/mm <sup>2</sup>
Hardness (Type)	80 (A) ±10%
Cured Density (gm/cc)	2.3 ±10%
Thermal Conductivity	25 Btu-in/hr-ft <sup>2</sup> -°F ±10% 3.6 W/m-°C ±10%
Linear Thermal Expansion Coeff. (ppm/°C)	120 ±15%
Maximum Continuous Operation Temp. (°C)	<150
Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1,spindle CP51)	240,000 cp ±20%

\* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

**AVAILABILITY:**

ME7155-AN is available in syringes for automatic needle dispense applications or in jars.

**APPLICATION PROCEDURES:**

- ( 1 ) Thaw for 30 minutes at ambient temperature in the original container.
- ( 2 ) Dispense adhesive onto clean substrate.
- ( 3 ) Cure according to one of the recommended schedules.

**CURE SCHEDULES:**

Temperature	Time	Pressure
80°C	8 hr	
100°C	4 hr	
125°C	2 hr	
150°C	1 hr	

**SHELF LIFE:**

Storage temperature	Shelf Life
-40°C	1 yr

**CAUTION:** This product may cause skin irritation. Avoid skin contact. If contact does occur, wash immediately with soap and water. Please refer SDS for more details  
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